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Job No.: CTCE/BBMP/W.No.10/RNS/CEMENT/2014-15

Date: 05.04.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. R. Narayana Swamy,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Bus Stop in Ramachandrapura in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-PMT(4571)/WO/650/2013-14 Dated: 05.03.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
3	Soundness) by the Le-Chatelier method	IS-4031 (Part 3	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.10/RNS/SAND/2014-15 : 05.04.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Narayana Swamy,** Contractor, Bangalore.

Name of Work : Construction of Bus Stop in Ramachandrapura in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT(4571)/WO/650/2013-14 Dated: 05.03.2014

Date of Testing : 05.04.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	4.25	4.25	95.8	90-100
2.36	326	16.30	20.55	79.5	75-100
1.18	384	19.20	39.75	60.3	55-90
600 Micron	436	21.80	61.55	38.5	35-59
300 Micron	513	25.65	87.20	12.8	8-30
150 Micron	184	9.20	96.40	3.6	0-10

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Job No.: CTCE/BBMP/W.No.10/RNS/AGG/2014-15 : 05.04.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Narayana Swamy,** Contractor, Bangalore.

Name of Work : Construction of Bus Stop in Ramachandrapura in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT(4571)/WO/650/2013-14 Dated: 05.03.2014

Date of Testing : 05.04.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25100**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	982	3.91	3.91	96.09	95-100
20	16158	64.37	68.29	31.71	30-70
10	4768	19.00	87.28	12.72	10-35
4.75	2515	10.02	97.30	2.70	0-5

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Job No.: CTCE/BBMP/W.No.10/RNS /STEEL/2014-15 Date: 05.04.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. R. Narayana Swamy,** Contractor, Bangalore.
Name of the work	:	Construction of Bus Stop in Ramachandrapura in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-PMT(4571)/WO/650/2013-14 Dated: 05.03.2014
Date of Test	:	05.04.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	515	558	13.35	O.K	O.K

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Job No.: CTCE/BBMP/W.No.10/RNS/BRICKS/2014-15

Date: 05.04.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. R. Narayana Swamy,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Bus Stop in Ramachandrapura in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-PMT(4571)/WO/650/2013-14 Dated: 05.03.2014
SAMPLE ID	:	BRICKS
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the samples are as follows:

Sl. No	Description	Test method as per IS Codes	Result	Requirement as per IS 1077-1992 (Rev-5)
1	Compressive Strength Of Bricks	IS 3495-1992 (Part-1)	5.95 N/mm^2	Class designation 5.0
2	Water Absorption of Bricks	IS 3495-1992 (Part – 2)	10.55 %	Not more than 20 %
3	Efflorescence of Bricks	IS 3495-1992 (Part – 3)	Moderate	Up to 12.5 Class
4	Dimensional Analysis of Bricks (minimum Sampling is 20 Nos)	IS 1077-1992 (Rev – 5)		
(a)	Measurement of Length in mm		3860 mm	(3800 ± 80 mm)
(b)	Measurement of Width in mm		1835 mm	(1800 ± 40 mm)
(c)	Measurement of Height in mm		1420 mm	(1400 ± 40 mm)

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Job No.: CTCE/BBMP/W.No.10/RNS/CUBE/2014-15 08.05.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Narayana Swamy,** Contractor, Bangalore.

Name of the work : Construction of Bus Stop in Ramachandrapura in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT(4571)/WO/650/2013-14 Dated: 05.03.2014

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.04.2014	08.05.2014	8.151	356.7	15.85
2	10.04.2014	08.05.2014	8.219	364.7	16.21
3	10.04.2014	08.05.2014	8.354	381.4	16.95

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TEST REPORT ON CONCRETE CUBES

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Agency : **Mr. R. Narayana Swamy,** Contractor, Bangalore.

Name of the work : Construction of Bus Stop in Ramachandrapura in Ward No. 10, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT(4571)/WO/650/2013-14 Dated: 05.03.2014

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.04.2014	16.05.2014	8.138	482.6	21.45
2	18.04.2014	16.05.2014	8.356	498.6	22.16
3	18.04.2014	16.05.2014	8.271	512.4	22.77

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Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Narayana Swamy,** Contractor, Bangalore.

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Reference : EE/BTP/BBMP/E-PMT(4571)/WO/650/2013-14 Dated: 05.03.2014

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.04.2014	16.05.2014	8.115	473.4	21.04
2	18.04.2014	16.05.2014	8.192	489.5	21.76
3	18.04.2014	16.05.2014	8.245	496.2	22.05

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